

7.4 HW 202

p 368 43-48, 50, 51, 56-58

43. $\tan 24 = \frac{x}{19}$

$19 \cdot \tan 24 = x$

$8.5 \approx x$

44. $\sin x = \frac{12}{17}$

$\sin^{-1}(\frac{12}{17}) = x$

$x \approx 44.9^\circ$

45. $\cos 62 = \frac{x}{60}$

$60 \cdot \cos 62 = x$

$28.2 \approx x$

46. $\cos 31 = \frac{x}{34}$

$34 \cdot \cos 31 = x$

$29.1 \approx x$

47. $\sin 17 = \frac{6.6}{x}$

$x \sin 17 = 6.6$

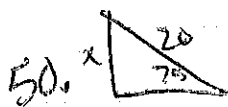
$x = \frac{6.6}{\sin 17}$

$x \approx 22.6$

48. $\tan x = \frac{15}{18}$

$\tan^{-1}(\frac{15}{18}) = x$

$39.8 \approx x$



$\sin 75 = \frac{x}{20}$

$20 \sin 75 = x$

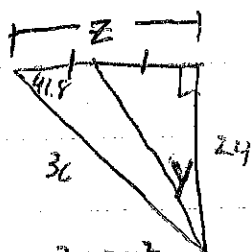
$19.3 \approx x$

51.

$\cos 75 = \frac{y}{20}$

$20 \cos 75 = y$

$5.2 \approx y$



56. $\sin x = \frac{24}{36}$

$x \approx 41.8$

$36^2 = z^2 + 24^2$

$\sqrt{720} = z$
 $26.8 = z$

$\tan y = \frac{13.4}{24}$

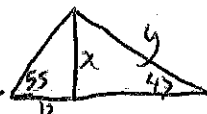
$\tan^{-1}(\frac{13.4}{24}) = y$

$29.2 \approx y$

57. $\tan 55 = \frac{x}{12}$

$12 \tan 55 = x$

$17.1 \approx x$



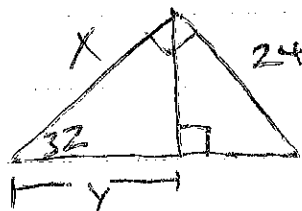
$\sin 47 = \frac{17.1}{y}$

$y \cdot \sin 47 = 17.1$

$y = \frac{17.1}{\sin 47}$

$y \approx 23.4$

58.



$\tan 32 = \frac{24}{x}$

$x = \frac{24}{\tan 32}$

$x \approx 38.4$

$\cos 32 = \frac{y}{38.4}$

$38.4 \cos 32 = y$

$32.6 \approx y$